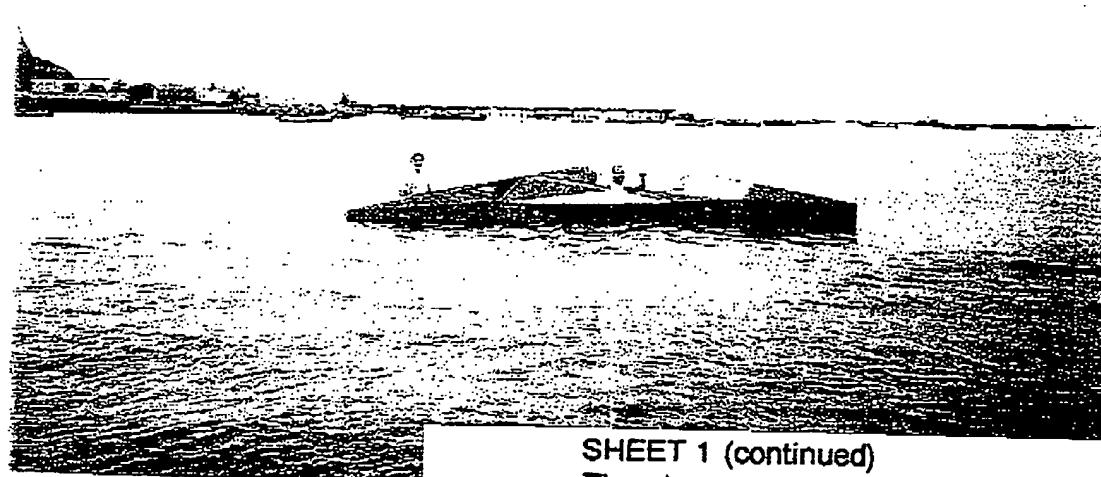


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#12

SHEET 1 - Photos show TH's faceted upperbody of Fig. 5 of patent application 09/677 583, in the transplanar hydrodynamic regime of Fig. 15, of patent application 09/677 897 without the lateral flows which are the mark of conventional planning boats (note center spray on wake is propeller driven and not hull generated). P. Alva 052 Calcasieu River



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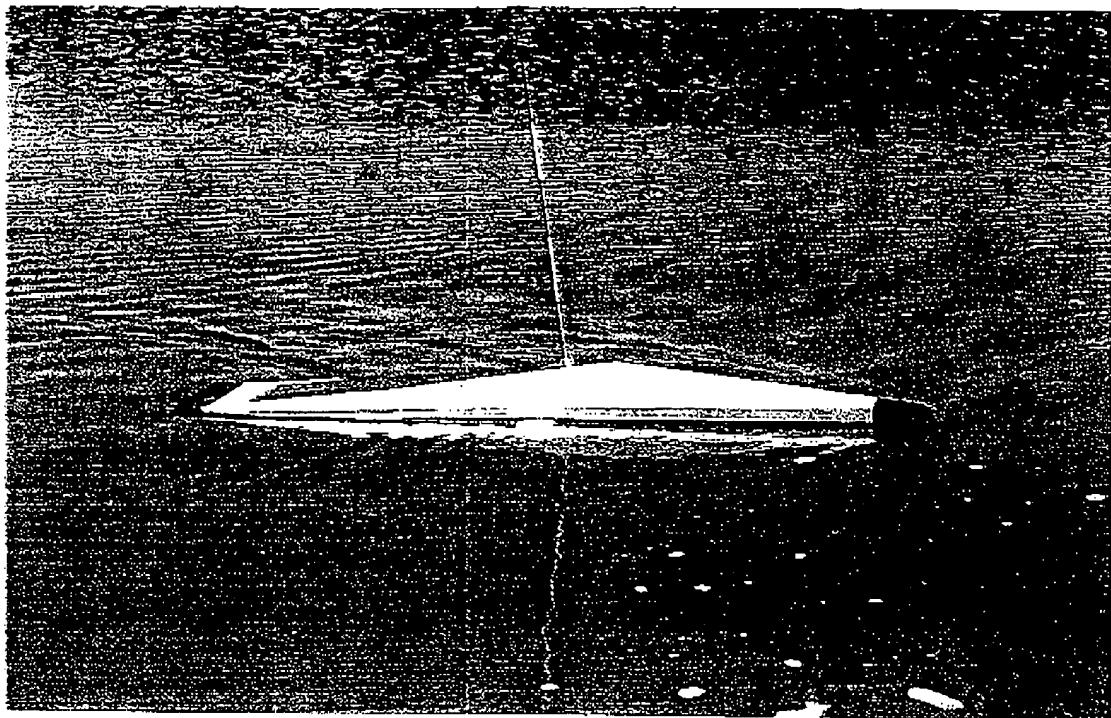


## SHEET 1 (continued)

The photos correspond to Figs. 5 and 3 of patent application 09/677 583, and show profile of TH stealth body above its static waterplane, free of radar reflecting step discontinuities (with canopy closed, shown open for sea tests).

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inventor

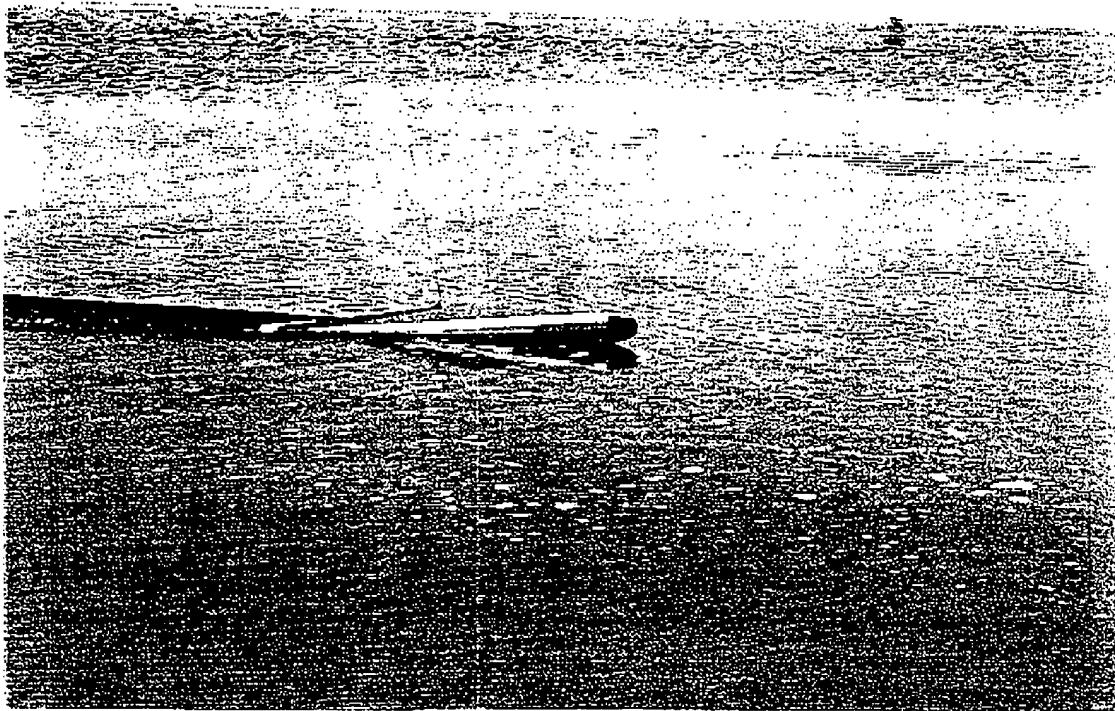
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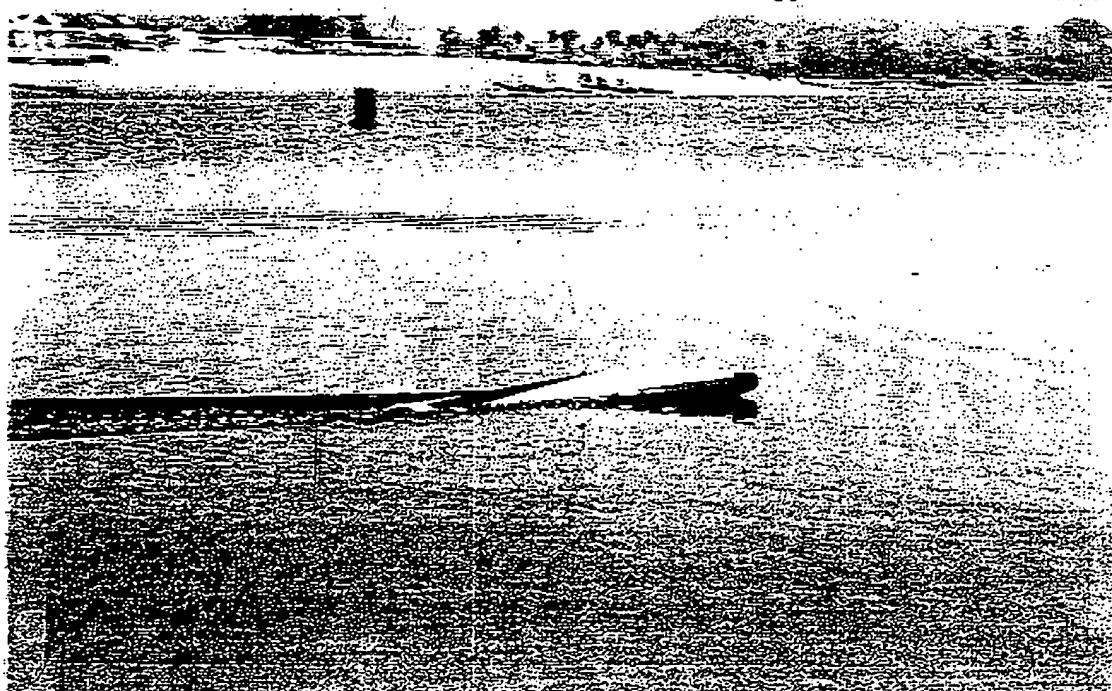
SHEET 2 - Photos correspond to surface-subsurface TH of Figures 5 and 3 of patent application 09/677 583. The upper photo has wings and a stern flap of Fig. 5, in static condition. The lower photo shows the unique pure faceted stealth archetype of minimal radar cross section (virtually zero) of Fig. 3, comprising only three faceted flat panels in unique cooperation between the triangular upper body planform and the triangular waterplane of the submerged hull portion.

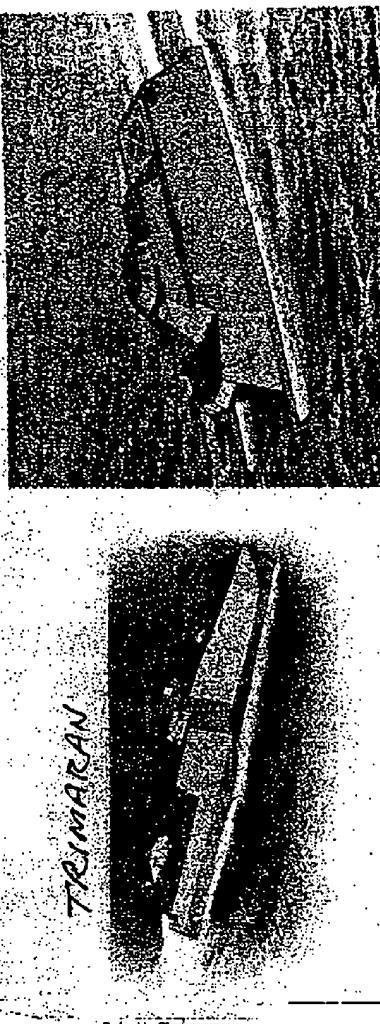
A. ALVAREZ CALDERON  
inventor

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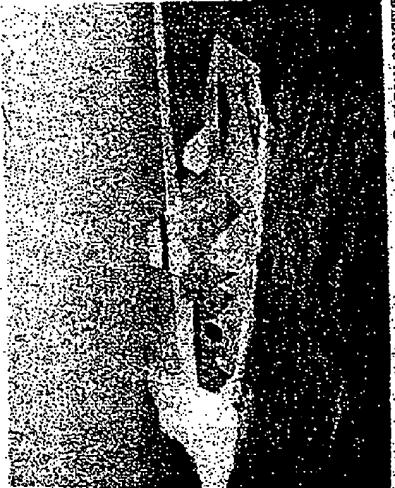
**CONFIDENTIAL**

SHEET 3 - Photos show TH's pure and unique stealth upper body archetype of Fig. 5 of patent application 09/677 583 in the unprecedented stealthy hydrodynamic X-REGIME of Fig. 15 of patent application 09/677 897, which in itself is free of any lateral flow disturbance outside or inside its uniquely calm trapezoidal wake. The water outside the wake is completely undisturbed, an extraordinary situation. *ALBERTO ALVAREZ CALDERON*  
*INVENTOR*



DEC-2-2002  
CATARMANNewslines Weapons and warfare  
FROM NAVY TIMES DEC-2-2002

LOCKHEED MARTIN CONCEPT



GENERAL DYNAMICS CONCEPT



GENERAL DYNAMICS CONCEPT

Clockwise from top left, the General Dynamics proposal for the littoral combat ship is based on a monohull, a design with a central hull and an outrigger on each side. The Lockheed Martin proposal blends the Sea Skimmer, catamaran and Skwadron. The Skwadron hull, the SWATH design features two additional hulls that remain submerged to reduce wave signatures. Noticing that many US LCS designs on the Swedish Visby corvette, John L. McMurtry's design is influenced by the Norwegian Navy's Skjold surface effect ship.

SHEET 4 - State-of—the-Art ships of low radar signature, taken from Navy times Dec. 2, 2002.

The newest stealth boats/ships proposals shown at right side on monohulls and multihulls all have radar reflecting step discontinuities, and none use the triangular waterplane of TH. The monohull does not show the unique cooperation of the triangular waterplane of TH with the triangular bow planform which results for TH is having freedom from step discontinuities, with a freeboard of decreasing height towards the bow. Claim 53 should be allowable over the candidate concepts at right.

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